

**EXAMINER:** Initial if reference considered, whether or not cited with MPEP 609! Draw line through citation if not in conference include copy of this form with next communication to applicant.

EXAMINER D. L. Hause	DATE CONSIDERED 3/13/97
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OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)	A10 Axelrod, H.R., "Embryonic Stem Cell Lines Derived from Blastocysts by a Simplified Technique," Developmental Biology, 101:225-228 (1984).	A11 Bazer, F.W., et al., "Fertilization, Cleavage and Impregnation," in Reproduction in Farm Animals, 5th ed., ed. Hatzer, E.S.E., Lea & Febiger, Philadelphia, PA (1987).	A12 Bearden, J.H., et al., "Gestation," Applied Animal Reproduction, pp. 85-98, Reston Publishing Company, Reston, VA (1980).
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EXAMINER INITIALS	DOCUMENT NUMBER	DATE	COUNTRY	CLASS / SUBCLASS	TRANSLATION YES NO
A4	EP 0169672	01/1986	EPO		
A5	WO 90/03432	04/1990	PCT		
A6	WO 90/01541	02/1990	PCT		
A7	WO 92/22646	12/1992	PCT		
A8	GB 2,213,831	08/1989	UK		
A9	WO 94/03585	02/1994	PCT		

EXAMINER INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS / SUBCLASS	FILING DATE
A1	5,175,383	12/1992	Leder et al.	822/2	02/17/89
A2	5,175,384	12/1992	Krimpenfort et al.	822/2	12/05/88
A3	5,175,385	12/1992	Wagner et al.	822/2	09/03/87

LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE			STATEMENT		(use several sheets if necessary)	
SERIAL NO.	CASE NO.	08/410,539	7823/5	FILING DATE March 24, 1995	GROUP ART UNIT	APPLICANT(S): Matthew B. Wheeler
18/27						

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EXAMINER <i>IS Suppl 1C</i>		DATE CONSIDERED <i>3/13/97</i>
<p>Bebert, K.M., et al., "Changes in Domestic Livestock through Genetic Engineering," in Current Communications &amp; Cell &amp; Molecular Biology, Animal Applications of Research in Mammalian Development, ed. Pedersen et al., Cold Spring Harbor Laboratory Press, pp. 233-266 (1991).</p> <p>Cruz, Y.P., et al., "Origin of embryonic and extraembryonic cell lineage in mammalian embryos," in Animal Application of Research in Mammalian Development, eds. Pedersen, R.A., et al., Cold Spring Harbor Laboratory Press, Plainview, NY (1991).</p> <p>Clarke, A.J., et al., "Expression of transgenic sheep," Biotechnology, Vol 7:487-492 (1989).</p> <p>Groves, J., et al., "Genetic manipulation of human anti-hemophilic factor IX in the milk of transgenic sheep," Biotechnology, Vol 7:487-492 (1989).</p> <p>Black, A.J., et al., "Agriculture and biotechnology: applications in agriculture and biotechnology," Academic Press Limited (1992).</p> <p>Clark, et al., "Expression of mouse gene targeting the gene by mouse eggs," Proc. Natl. Acad. Sci., 86:7087-7091 (1989).</p> <p>Capocchini, Mario R., "The new mouse gene technologies: alternative to the hibertocompatibility class II gene by DNA microinjection into mouse eggs," Proc. Natl. Acad. Sci., 86:7087-7091 (1989).</p> <p>Brittenier, et al., "Targeted correction of a major embryogenetic defect in the mouse genome by gene targeting," Trends in Genetics, 5(3):70-76 (1989).</p> <p>Black, G.T., et al., "Single-base polymorphisms and DNA sequence of the porcine <math>\alpha</math>-lactalbumin 5' flanking region," J. Brindle, A., et al., "Formation of germ-line chimeras from embryo-derived teratocarcinoma cells lines," Nature, 309:255-256 (1984).</p> <p>Bridges, J., et al., "Sheep-cloning Method Holds Promise of Fast Introduction of Livestock Traits," News Article, 1996.</p> <p>Bishop, Jerry E., "Sheep-Cloning Method Holds Promise of Fast Introduction of Livestock Traits," News Article, 1996.</p> <p>OTHER ART (including Author, Title, Date, Pertinent Pages, etc.)</p>		

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EXAMINER B. WHEELER	DATE CONSIDERED 3/13/97
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A33	Jasbin and Berg, "Homologous Integration in mammalian cells without target gene selection," Genes & Development, 2:1353-1363 (1988).
A32	Hoopfer, M.C., "Teratocarcinomas and Embryonic Stem Cells: A Practical Approach," ed. Robertson, E.J., IRL Press, Ltd., Oxford, UK, 51-70 (1987).
A31	Hogman, et al., "Isolation of pluripotent stem cell lines," Cold Spring Harbor Laboratory - Manipulating the Mouse Embryo: A Laboratory Manual, Section E:205-218 (1986).
A30	Hasty, et al., "The length of homology required for gene targeting in embryonic stem cells," Molecular and Cellular Biology, 11(11):5586-5591 (1991).
A29	Handyside, A., et al., "Towards the Isolation of Embryonal Stem Cell Lines from Sheep," Roux's Arch., Developmental Biology, 185-190 (1987).
A28	Haggen, D.R., et al., J. Anim. Sci., 69:1147-1150 (1991).
A27	Gobelter, A., et al., "Transgenesis by means of blastocyst-derived embryonic stem cell lines," Proc. Natl. Acad. Sci. USA, 83:9065-9069 (1986).
A26	Frohman and Martin, "Cut, Paste, and Save: New approaches to alternative splicing specific genes in mice," Cell, 56:145-147 (1989).
A25	Flake, A.W., et al., "Transplantation of fetal hematopoietic stem cells in utero: the creation of hematopoietic chimeras," Science, Vol. 233 (1986).
A24	Fajfar-Wheatsone, C.F., et al., "Sex Determination of Porcine Pre-Implantation Embryos via Y-Chromosome Specific DNA Segregation," Anim. Biotech., 4:183-193 (1993).
A23	Evans, M.J., et al., "Establishment in culture of pluripotential cells from mouse embryos," Nature, 292:154-156 (1981).
OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)	

FORM PTO-1449	LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	(use several sheets if necessary)
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APPENDIX	GROUP ART UNIT	

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EXAMINER	DATE CONSIDERED	3/3/97
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A44	Mintz, B., Science, 148, 1232-3 (1965).	
A43	McLaren, A., et al., Nature, 224, pp. 238-240 (1969).	
A42	Martin, P., et al., "Improvement of milk protein quality by gene technology," Livestock Production Science, 35:95-115 (1993).	
A41	Martin, G.R., "Isolation of a pluripotent cell line from early mouse embryos cultured in medium conditioned by teratocarcinoma stem cells," Proc. Natl. Acad. Sci. USA, 78(12):7634-7638 (1981).	
A40	Martin, G.R., "Teratocarcinomas and mammalian embryogenesis," Science, 209:768-776 (1980).	
A39	Manosour, et al., "Disruption of the proto-oncogene int-2 in mouse embryo-derived stem cells: A general strategy for targeting mutatations to non-selectable genes," Nature, 336:348-352.	
A38	Lewin, H.A., et al., "Mapping genes for resistance to infection in animals," in Animal Disease Mapping Techniques and Applications, Marcel Dekker, Inc., 13:283-304 (1991).	
A37	Kollias, G., et al., "The study of gene regulation in transgenic mice," Transgenic Animals, p. 92, Graw-Hill, et al., eds., Academic Press Limited (1992).	
A36	Karg, H., "Manipulation of growth," in Biotechnology for Livestock Production, Plenum Press, New York and London, 18:159-180 (1989).	
A35	Karg, H., "Manipulation of lactation," in Biotechnology for Livestock Production, Plenum Press, New York and London, 19:181-206 (1989).	
A34	Jeannotte, et al., "Low level of Hox1.3 gene expression does not preclude the use of promoters less vectors to generate a targeted gene disruptor," Molecular and Cellular Biology, 11(11):5578-5585.	
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EXAMINER	B Cwurdele	DATE CONSIDERED	3/13/97
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A64	Stevens, L.C., "The development of transplatable teratocarcinomas from mouse embryos," Dev. Biol., 21, 364-382 (1970).		
A63	Smith, A.G., et al., "Buffy Rat Liver Cells Produce a Differentiable Activity which Inhibits the Differentiation of Murine Embryonal Carcinomas and Embryonic Stem Cells," Dev. Biol., 121:9 (1987).		
A62	Sims, M.M., et al., "Production of Retuses from Totipotent Cultured Bovine Inner Mass Cells," Theriogenology, 39:313 (1993).		
A61	Schook, L.B., et al., "Mapping Genes for Growth and Development," 4:75-92, in Growth of the Pig, ed. Hollis, CAB International, Wallingford, UK (1993).		
A60	Rudnicki, M.A., et al., "Teratocarcinomas and Embryonic Stem Cells: A Practical Approach," Methods and Induction of Differentiation in Embryonal Carcinoma Cell Lines, pp. 19-49, ed. Robertson, IRL Press Ltd., Oxford, England (1987).		
A59	Rossant, J., et al., "The relationship between embryonic and embryonal carcinoma and embryoid stem cells," Cell Differentiation, 15:155-161 (1984).		
A58	Rossant, J., et al., "The developmental potential of a exploded male teratocarcinoma cell line after blastocyst injection," Embryo. exp. Morph., 70, 99-112 (1982).		
A57	Rohrer, G.A., Alexander, L.J., Keele, J.W., Smith, T.P., Beattie, C.W., "A Microsatellite Linkage Map of the Porcine Genome," Genetics, 136:231-245 (1994).		
A56	Rohrer, G.A., "Embryo-derived stem cell lines," Teratocarcinomas and Embryonic Stem Cell Lines, A Practical Approach, Chap. 4(4.4.2):92, ed. Robertson, E.J., IRL Press (1987).		
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A65 Strojek, R.M., et al., "A Method for Cultivation of Porcine Blastoctytes," Theriogenology, 33(4):901-913 (1990). A66 Talbot, N.C., et al., "Alkaline Phosphatase Staining of Pig and Sheep Epiblast Cells in Culture," Molecular Reproduction and Development, 36:139-147 (1993). A67 Thomas, K.R., et al., "Site-Directed Mutagenesis by Gene Targeting in Mouse Embryo-Derived Stem Cells," Cell, 51:503-512 (1987). A68 Thomas, C.B., et al., "Biology of Embryonic Stem Cell Lines from Farm Animals," Biology of Reproduction, 38 (1988). A69 Ware, C.B., et al., "High-Level Synthesis of Embryonic Stem Cells by Using Segmentation Replacements," Mol. Cell. 38 (1988). A70 Wall, R.J., et al., "High-Level Synthesis of a Heterologous Protein in the Mammary Glands of Transgenic Swine," Proc. Natl. Acad. Sci. USA, 88, 1696-1700 (1991). A71 Webel, S.K., et al., "Synchronous and Asynchronous Transfer of Embryos in the Pig," J. Animal Science, 30:565-568 (1970). A72 Wobus, A.M., et al., "Characterization of a Pluripotent Stem Cell Line Derived from a Mouse Embryo," Exp. Cell Res., 152:212-219 (1984). A73 Wurst, W., et al., "Production of Targeted Embryonic Stem Cell Clones," Gene Targeting A Practical Approach, P. 33, Joyner, A.L., ed., IRL Press (1993). A74 Yates, et al., Nature, 313:811-815 (1985).		
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